

John (Jack) A. Albright

Natural History Building – 1301 W Green St., Urbana, IL
(512) 965-5798 • johnaa2@illinois.edu

EDUCATION

Doctor of Philosophy in Geology

Expected Spring 2021

University of Illinois at Urbana-Champaign
Advisor: Professor Patricia M. Gregg

Bachelor of Arts in Geology

May 2016

Pomona College, Claremont, California
Advisor: Professor Eric B. Grosfils

PUBLICATIONS

J.A. Albright, P.M. Gregg, J. Freymueller, Z. Lu, Multi-stream data assimilation at Okmok, Alaska: in prep., estimated submission Fall 2018

R.T. Goldman, D.M. Gravley, E.B. Grosfils, P.M. Gregg, **J.A. Albright**, Using Akaroa's paleo-stress field to predict eruption location on large volcanoes: in prep., estimated submission Fall 2018

J.A. Albright, 2016. Late-stage trachyte dike emplacement on Banks Peninsula: A petrologic and numerical modeling approach [Bachelor thesis]: Pomona College, 70 p.

ABSTRACTS AND PRESENTATIONS

P. M. Gregg, H. Le Mével, Y. Zhan, **J. A. Albright**, H. E. Cabaniss, Linking thermomechanical models with geodetic observations to assess magma reservoir evolution and stability, *AGU Chapman Conference: Merging geophysical, petrochronologic, and modeling perspectives to understand large silicic magma systems*, 2018.

J.A. Albright, P.M. Gregg, J. Freymueller, Z. Lu, 2017, Hindcasting the 2008 eruption of Okmok, AK using multi-data stream statistical data assimilation: Abstract presented at 2017 Scientific Assembly, IAVCEI, Portland, Oregon, 14-18 August.

P. Gregg, D. Fornari, M. Trim, D. Wanless, V. Romano, D. Geist, S. Shirey, W. Ridley, M. Smith, C. Lundstrom, Y. Zhan, E. McCully, C. Trim, H. Cabaniss, **J. Albright**, B. Boulahanis, Y. Tan, 2017, Emplacement of the 8° 20' N Seamount Chain: Preliminary results from the 2016 OASIS Expedition: Abstract presented at 2017 Scientific Assembly, IAVCEI, Portland, Oregon, 14-18 August.

J.A. Albright, P.M. Gregg: Analyzing pre-eruptive and ongoing inflation of Okmok, AK using statistical data assimilation: Abstract presented at 2017 UIUC School of Earth Science and the Environment Research Review, Urbana, Illinois, 10 February.

R.T. Goldman, **J.A. Albright**, E.B. Grosfils, 2015, Ring fault and caldera formation: Insights provided by three-dimensional elastic finite element models: Abstract presented at 2015 Lunar and Planetary Science Conference, Houston, Texas, 16-20 March.

E.B. Grosfils, **J.A. Albright**, J. Baxter, P.C. Ferrin, P.J. McGovern, 2014, Using mapping-derived quantitative strain estimates to test uplift versus dike emplacement models for giant radial lineament system formation on Venus: Abstract presented at 2014 Lunar and Planetary Science Conference, Houston, Texas, 17-21 March.

RESEARCH EXPERIENCE

Science Party Member

November-December 2016

WHOI Expedition AT37-05 – Off-Axis Seamount Investigations at Siquieros

- ❖ 4-week long oceangoing expedition to the 8° 20' N Seamounts off of the East Pacific Rise
- ❖ Participated in HOV Alvin Dive 4859 to collect rock samples 3 km below sea level
- ❖ Processed and analyzed geophysical data and cataloged geochemical samples

Frontiers Abroad

Spring 2015

The University of Canterbury, Christchurch, New Zealand

- ❖ 6-month study abroad program including a 5-week field camp covering a wide variety of geologic processes across both main islands of New Zealand
- ❖ Conducted semester-long independent research project characterizing the mineralogy and flow textures of trachyte dikes on Banks Peninsula

Undergraduate Research Assistant

Summer 2013, Summer 2014

Department of Geology, Pomona College

- ❖ Calibrated and implemented a 3D numerical model for magma reservoir failure and caldera collapse (2014)
- ❖ Prepared and compositionally analyzed sedimentary rocks samples (2013)
- ❖ Mapped and measured radial crack systems on Venus using GIS (2013)

TEACHING AND MENTORING EXPERIENCE

Teaching Assistant

Department of Geology, University of Illinois

Fall 2017 – Spring 2018

- ❖ *Planet Earth, Physical Geology, and Exploring Geology in the Field*
- ❖ Lead discussion sections of 15-25 freshman and sophomore undergraduates, giving short lectures and leading class activities covering a wide variety of core geologic concepts
- ❖ Assist with several field trips to sites across the Midwest to help students identify and analyze important geologic features
- ❖ Placed on university-wide "List of Teachers Ranked as Excellent by their Students" for all semesters taught

Department of Geology, Pomona College

Spring 2014, Fall 2014, Fall 2015

- ❖ *Introduction to Geology and Mineralogy with Lab*
- ❖ Hosted mentor sessions, assisted classes of freshman- through junior-level undergraduates with laboratory assignments and final projects

Department of Chemistry, Pomona College

Fall 2014

- ❖ *Accelerated General Chemistry*
- ❖ Guided a class of ~15 freshman students through laboratory assignments

Graduate Academy for College Teaching

Fall 2017

Center for Innovation in Teaching and Learning, University of Illinois

- ❖ 3-day training course for new teaching assistants at the University of Illinois
- ❖ Attended lectures and discussions about teaching strategies, resources, and responsibilities
- ❖ Presented a short lecture to fellow attendees and received feedback from teaching experts

TEACHING AND MENTORING EXPERIENCE, CONTINUED

Student Mentor, Queer Questioning and Allied Mentorship Program **Fall 2013 – Spring 2014**

Pomona College Queer Resource Center

- ❖ Introduced two freshmen mentees to on-campus LGBTQ resources with periodic check-ins to help them adjust to college life
- ❖ Helped organize events and study breaks for all program mentees

UNIVERSITY SERVICE

Treasurer **Fall 2017 - Present**

Geology Graduate Student Council

- ❖ Maintain council funds, lead graduate student meetings, and organize purchasing of departmental merchandise

Committee Member **Fall 2017**

Out in Science, Technology, Engineering, and Mathematics at the University of Illinois

- ❖ Advocate for LGBT+ representation and accommodation in STEM fields
- ❖ Advise executive board in organizing weekly meetings and discussions

Student Liaison **2014**

Department of Geology, Pomona College

- ❖ Elected by the student body to organize departmental events and to relay information between the students and faculty

HONORS AND AWARDS

NSF Graduate Research Fellow **Awarded 2018**

UIUC Geology Supplemental Travel Funds **Spring 2017**

UIUC Geology Predoctoral Fellow **Fall 2016 – Spring 2017**

- ❖ Awarded to support first year of graduate study towards Ph.D.

D.B. McIntyre – H. Stanton Hill Geology Award **2016**

Department of Geology, Pomona College

Donald H. Zenger Award **2016**

Department of Geology, Pomona College

Barry Goldwater Scholarship Honorable Mention **2015**

Phi Beta Kappa **2015**

REFERENCES

Patricia M. Gregg, Assistant Professor

Department of Geology
University of Illinois at Urbana-Champaign
(217) 333-3540, pgregg@illinois.edu

Eric B. Grosfils, Minnie B. Cairns Memorial Professor of Geology

Department of Geology
Pomona College
(909) 621-8673, eric.grosfils@pomona.edu